Perogram 2: WAP to reate a class Student with members USN, name, an organy crejolits and an array marks. Include methods to accept and display détails and a metur to calentale SGPA of a SGPA = Total GP

Total credits Suclent. import joua. uhl. \*; class Student ? storing name, usn; int creditis, marks []; Public Student Cint con, int manks [], string neune, String usn) hoof are soil and as this . Wen z Wen; 0.1-12 0.1--19 this . name = name;

Mis. creclit = creclit; this marks = marks ;? public void display ( & double res) System. oul. printh ("In Name: "+ name); System. Out. posinten ("In USN : "+ Usn); credits

System. out. posinten ("The tractions in ); ("In traction & needles:"); segnetar fos (intizo; ix mosters. length; itt) System. Out . paintly ("That + credit [i]); System. out. printlu ("In Sub"+ G+D+"/t Marks = "+ marks [i] 3 System. out. printlu ("InIn SGIPA = "+ res); (D. dymostus, public world spec () double te = 0; //total crechits clouble tgp = 0; 140tal grade points so mentus for lint iso; ix credit length; i++) braye crays man per subjective bot = cuelit [i]; ( the contract of the total tgp + = calgp (marks [i]) \* credit[i]; war where ! suturn (top/tes; " Roled N' ) withing to my extens ent-printed (1) Eviles uses: "); public double calgp (chandoient m) il(m>=90) ne seeds weathfly

3 return 10,0; Else if (m> 280) void elipted (1 darph 3 return & 9.6; righted . Out - painthis ("In Acude else if (m>=70) your only fainter ( In USA) system end. paintly ( The page) 3 Jukom & 8.0; takinem footpulies or direction else if (m>:60) step med make Sup Kim. out. Priviles ("Vis 5/2) viehom 7.0; E Super Eute pourter ("ININ SEIF A else if (m>=50) orthorn 6.0;
g
else

orthorn 6.0;
g

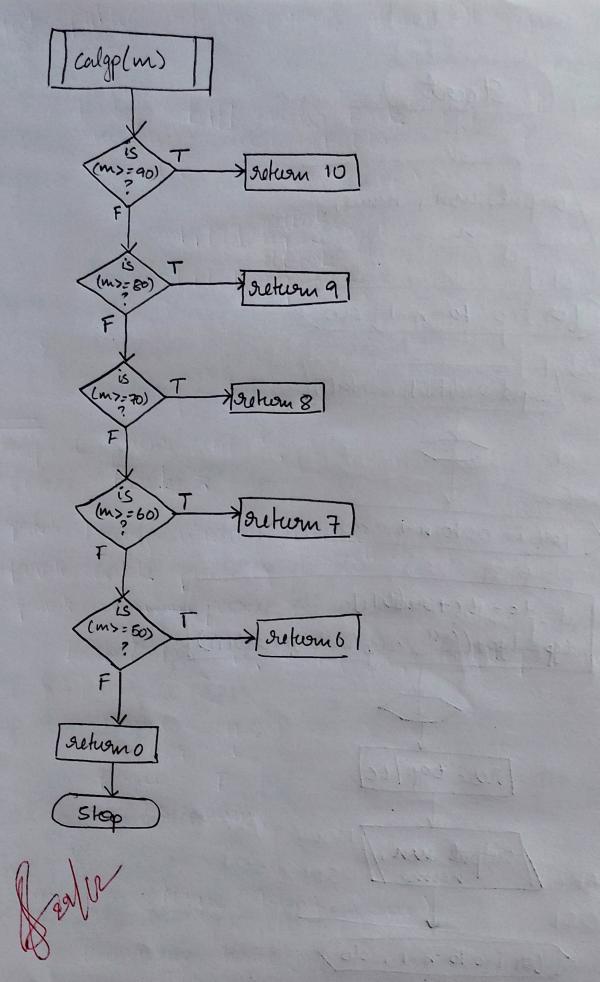
orthorn 6.0;
g () 1983 ic= 0. Medal oracins : 0 900 Public static void main (Storing args 17) } Stadeat of = new Shotaltes Scanner read : jew Scanner (system In); uso entered / System out printle (" In Enter name 1: "); name = head.nextline(); System . Out - printly l"In Enter user: "); usn = read.next(); System. out. printen ("In Enter no. of subjects" "), N int n = read neutIntly; ( m>= 90)

```
credit = new int[n];
    marks = new int[n];
    System. out. pointer ("In Enter montes and credits In: ").
    for linti 20; ixn; i++)
         System out perital ("hMarks : ");
          credit[i] = read. new Int();
          System.out. pointle ("In Oredit: ");
          marks[i] = new read. nentout();
     Student ob = new Student (credit, marks, name, usn);
      obisgpails,
      double res: ob. sapal);
       ob. displayl & res);
      Eystemoort-phinter Blades (1991)
                                          des : 6 des
Output: means
                             Name: ABCHERDAM JOHOO
                             USM: 001
ENter name: ABC
                                                1948
Enter USN: 001
                                                step e :
Enter mortes a crédits:
Marks: 90
Credit: 4
Marks: 86
 Credit: 3
 Murks: 95
 Credit: 4
 Marky: 89
```

Credit: 1 Marks: 98 Credit: 1

Algorithm: Step 1: Stoort Steps: input usn, norme, creatite, muches n steps: 609 1=0 to n-1, do read credits[i], warks[i] endofor 609 j=0 to n-1; do te = tc+ credits[i]; tgp= tgp+(eallfunction calgp(norks[j])\* eredit[j]); endoffer Sty 5: ous z te/tgp Step 6: output usin, name of sold and was 600 k 20 to n-1, do ( ( ) ) polypus do Step 7: output eredikti, markslit while the endoffor Skp 8: output res step 9 elop calgo binetion: source they tue Step 1: stood 100 mo ib marks >= 90 enter USM: Step 2: return 10 else if works>=80 outurn 9 else if marks > = 90 suturn 8 else if nearly > 260 defutin 7 else if marks>=50 return 6 outurn O enelogib Skp 3: Skop

Flow cheert: Start input usn, name, bog i=0 to n-1, imput credits[i], marks[i] bon i= 0 to n-1, do te = tc+credits[i]; tgp = tgp+ (call calgo (marks[i]) \* cardit[i]) resz tgp/tc output usu, bor i=0 to n-1, do output credit[i], output res stop



C:\Users\BMSCE\Desktop\014>javac Student.java

C:\Users\BMSCE\Desktop\014>java Student

Enter name: ABC

Enter USN: 123

Enter no. of subjects: 5 Enter marks and credits: Enter marks for subject 1: 90 Enter credits for subject 1: 4 Enter marks for subject 2: 86 Enter credits for subject 2: 3 Enter marks for subject 3: 95 Enter credits for subject 3: 4 Enter marks for subject 4: 89 Enter credits for subject 4: 1

Enter credits for subject 5: 1 Name : ABC

Enter marks for subject 5: 98

USN : 123

Subject 1: Marks= 90 Credits= 4 Subject 2: Marks= 86 Credits= 3

Subject 3: Marks= 95 Credits= 4

Subject 4: Marks= 89 Credits= 1

Subject 5: Marks= 98 Credits= 1

SGPA : 9.692307692307692

Name: Aditi C

USN: 1BM22CS014